

**HDMI™ FIELD RECORDER, MONITOR, PLAYBACK & PLYOUT DEVICE**  
**10-BIT SMART PRODUCTION FOR DSLRs & HDMI CAMERAS**

# NINJA-2



ProRes | Avid DNxHD

NOW WITH:  
**AtomOS 3.0**

- SmartMonitor
- SmartLog (mark+tag)
- SmartControl
- AutoRecord

EXPANDABLE WITH  
**CONNECT**  
 ADD  
 HD/SD-SDI  
 IN/OUT

**RECORD → MONITOR → PLAYBACK+PLAYOUT → EDIT-READY**

**UNCOMPRESSED 8/10-BIT**

↓

**APPLE ProRes® or Avid DNxHD**

↓

HDD | SSD

NINJA 2

**4.3" SCREEN**  
800x480 / 16:9

Focus + Exposure Assist

**Playback on-screen or external monitor**

Instantly review, navigate, mark and tag your recorded footage

**HDMI I/O**

Broadcast 10-bit  
4:2:2, 1920x1080

Mac & PC compatible

MASTER CADDY HDD/SSD → DOCK FIREWIRE® 800 or USB 3/2 → MAC & PC COMPATIBLE

# ATOMOS NINJA-2

## YOUR 10-BIT HDMI SMART PRODUCTION WEAPON



### AtomOS3.0

#### Easy-to-use Touchscreen Operating System

Access all of the Ninja-2's operations via the fast, responsive touch interface. The real power of the Ninja-2 comes from AtomOS, our innovative and intuitive operating system.

**One-touch Navigation** allows for simple operation – everything is one touch away.

**AtomOS** upgrades are provided free of charge, via download.

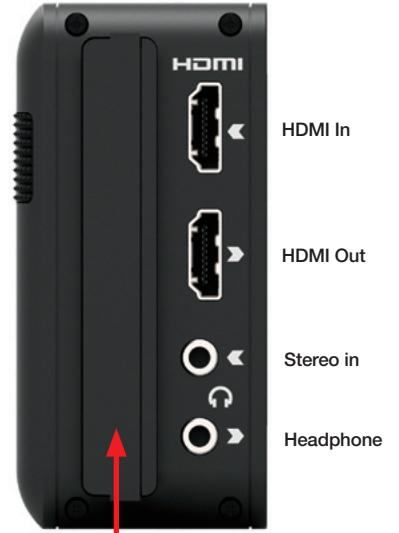
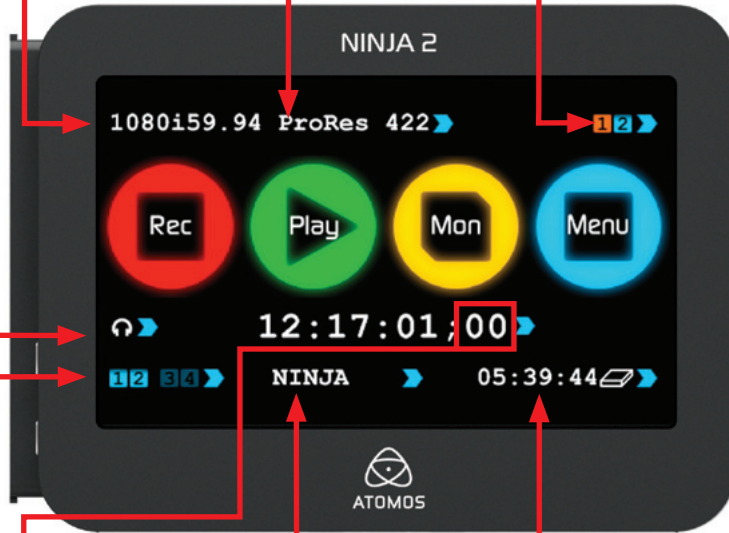
**Headphone Line Out Volume** Lets you adjust the volume of the professional quality headphone amplifier

**Audio Input Level Meters + Headphone Line Out Volume** Touch audio meters to adjust 4 channels of audio. 8 channel HDMI audio support coming this summer

**Current Video Input Format** Displays native format from source signal ie. 1080i 59.94

**Recording Format** Select the variety of ProRes® or Avid DNxHD codec you are recording to; Avid DNxHD-220X (10-bit), DNxHD-220 (8-bit), DNxHD-145 (8-bit), DNxHD-36 Proxy (8-bit) + all ProRes® options.

**Continuous Power Battery Indicator** Shows which battery is currently being used to power the Ninja-2. You are free to replace the one that isn't being used, the active battery is illuminated orange.



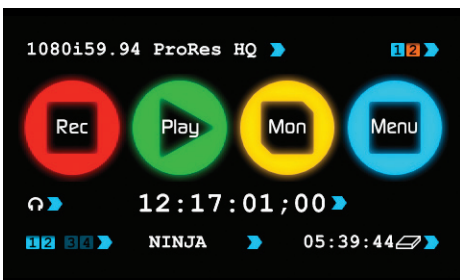
**Timecode** Choose between On board, time of day, record run or auto restart time code modes or utilise external timecode from camera or any source input

**Unit Name** Name your Ninja-2 by project or camera. Media drives and recorded files are subsequently named with the unit name upon formatting.

**Time Remaining** Shows remaining record time. Remaining time is calculated dynamically and is based on the bitrate of the current recording format and the memory capacity of the HDD/SSD in use.

**Master Caddy Slot** Simple, locking HDD/SSD system. A safe, practical solution to media management

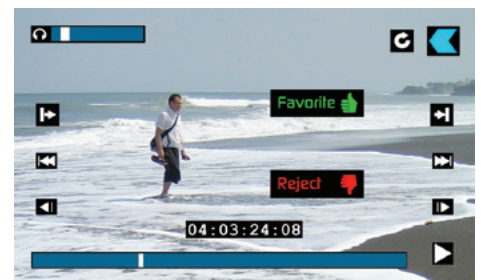
### One-touch Recording



### One-touch Monitoring



### One-touch Review



### SmartControl

Control individual, or multiple, Ninja-2 field recorders, in any combination via serial control from a deck, PC, Mac, or iPad/iPhone.

- All functions of the Ninja-2 can be controlled from a separate device, even remotely over the internet.
- Standard deck control functions are available to integrate into existing infrastructure - perfect for custom system design.
- Auto record means that as soon as a signal is detected by the Ninja-2, recording will be started. Perfect for motion sensor recording or fail-safe recording from live feeds.

### SmartMonitor

Accurately assess focus and exposure with:

- Focus Peaking**
- Adjustable Zebra**
- False Color Twin Mode**
- Blue Only - Exposure Check**
- Control - Adjustments for individual filters**
- SmartLog**

### SmartLog

Log in and out points on your footage and tag these clips with keywords such as 'good shot', 'bad shot' etc.



With the Ninja-2 this part of the post production process can now be done on set, or on the move, with Continuous Power.

SmartLog operates while in Monitor or Playback mode. It saves time, money and allows fast, collaborative pre-editing prior to final post production.



## Online or Offline, Master or Back-up

### 10-bit 4:2:2, 220Mbps, 2.5" HDD or SSD

Professional media production is all about balancing quality, cost and time. We understand this dynamic and our aim is to redefine the digital recording workflow to maintain the highest recording quality, minimize the time taken to move video from camera to computer and lower the cost of production using affordable, high capacity, high speed media.

The Ninja-2 takes any uncompressed HD or SD source and encodes it in real-time to 10-bit, 4:2:2 Apple ProRes or Avid DNxHD at up to 220Mbps. Both are class-leading codecs for production, broadcasting, editing and post-production. Because we are portable, we can record from the ultimate image source, the sensor of the camera.

The Ninja-2 always records in 10-bit, even from an 8-bit source. We add color registries for integration into higher bit-depth graphics from CG, animation and special effects. This avoids banding and makes editing and grading, in fact any precision effect, more accurate.

## Any HDMI™ or HD-SDI source...

### DSLRs, Decks, Switchers, PC, Mac, iPad & iPhone

Ninja-2 has HDMI In and optional SDI In\*. Virtually any device transmitting an HDMI or HD/SD-SDI signal is compatible with the Ninja-2, including cameras, decks, switchers, routers, PCs, MAC, tablets and smart phones as well as audio equipment, which make it an indispensable tool for any number of scenarios.

### Nikon/Sony/Panasonic/Canon/Red/Arri/JVC/GoPro

Whether you are a Hollywood DOP needing high quality review and tagging tool from an Arri, RED, Canon or Sony camera, or an independent filmmaker using a Nikon DSLR for end-to-end digital production, the Ninja-2 makes all types of production faster, better and easier, and at very little cost.

James Cameron used Atomos field recorders on his *Deep Sea Challenge* - need we say more? From 4 miles down to 20,000 feet up, Ninja-2 will record your adventures in super high quality - it's got you covered on land, air and sea!



## Ready to deliver, high-capacity HDD or SSD

### No more expensive memory cards!

Ninja-2 frees you from the financial and operational constraints of expensive Flash media (e.g. SxS and P2) and aggressive compression (MPEG-2) by allowing you to use cheap, commodity storage that's available anywhere.

Choose inexpensive 2.5" hard disk drives (spinning disks) for 90% of projects and Flash-based SSDs for rough terrain or high security use. HDDs are now cheaper than tapes! Store them on a shelf or hand them to your client. Modern commodity storage is extremely reliable.

A 750GB/5400rpm drive holds up to 16 hours of high quality Apple ProRes® footage.

### Supported Drives

**HDD:** Western Digital, Hitachi, Samsung, Toshiba  
**SSD:** Intel, OCZ, Cruise

**Latest recommended drives:** [www.atomos.com](http://www.atomos.com)

**HDD**  
 **SSD**  
COMPATIBLE



## 800x480 screen with 170° viewing and loop play

### Focus Peaking, Zebra, False Color & Blue Only Exposure



The Ninja-2 replaces your current monitor with sharper images, better direct sunlight performance, loop play and professional monitoring tools such as Focus Peaking to help you really nail that shot. Accessories such as Loupe and Sun visors are also available.

Combining monitoring with other essential production and post production tasks is just another example of why the Ninja-2 is a Weapon of Smart Production.



## Pristine Playback & Payout SmartLog - Just Mark & Tag

Use your Ninja-2's 800x480 16:9 screen to navigate through and review your footage, to mark in and out points and input XML tags. Instantly show your material to production colleagues, clients or talent, and check each shot in detail, during or after the shoot - logging their suggestions without leaving the set. Review and edit an entire day's shoot on-set, or while travelling, with high-quality playback and comprehensive clip logging & navigation controls.

Just touch "Play" on the Ninja-2 touchscreen and view your full HD recordings, with up to of 10 hours playback and editing on one battery charge (and don't forget our patent-pending Continuous Power for unlimited operation in the field).



## Instant editing on MAC or PC!

The Ninja-2 seamlessly migrates your productions to the efficient and cost-effective world of file-based workflows. By recording directly to a production-quality, edit-friendly format, it bypasses the codec in the camera and eliminates the time-consuming capture process completely.



The Ninja-2's tight integration with Apple ProRes® means recorded footage is instantly and natively editable in Final Cut, Media Composer, Premiere, EDIUS, Vegas and Lightworks.

## Everything you need

Ninja-2 works right out of the box, you can be using it within minutes! We supply everything (except storage media) in a tough professional carry case.

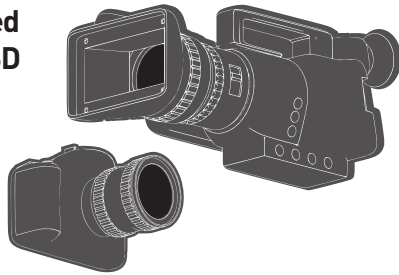


# FROM SENSOR TO EDIT SUITE UNCOMPRESSED 10-BIT HD/SD

# NINJA-2 TECH SPECS



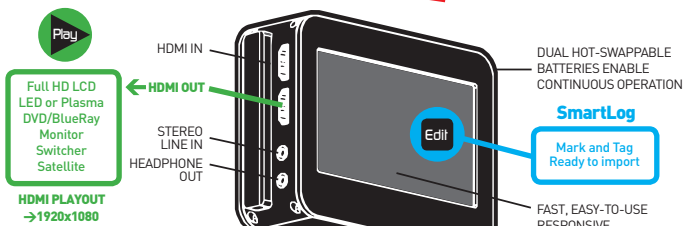
▶ Uncompressed  
8/10-bit HD/SD  
from HDMI



▶ To Apple ProRes® or  
Avid DNxHD on HDD/SSD

ProRes Avid DNxHD

REAL-TIME  
PULLDOWN REMOVAL



HDMI PLAYOUT  
→ 1920x1080

EJECT  
MASTER  
CADDY

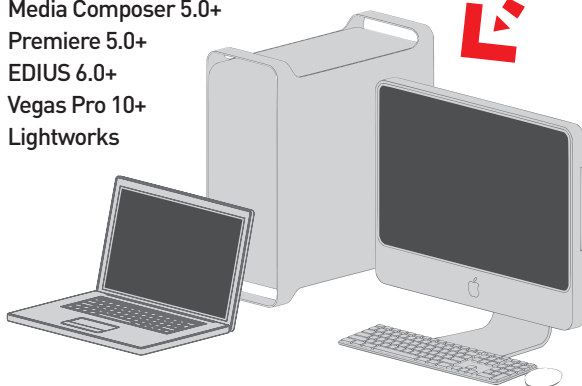
REMOVABLE LOW COST 2 1/2" HDD/SSD  
CONNECTS VIA USB 2/3 OR FIREWIRE® 800

CONNECT TO ANY  
WORKSTATION VIA  
MASTER CADDY  
DOCKING STATION

DOCK

▶ Ready to Edit

FCPX/FCP7+  
Media Composer 5.0+  
Premiere 5.0+  
EDIUS 6.0+  
Vegas Pro 10+  
Lightworks



Mac + PC Compatible

## Ninja-2 Main Unit

<b>Light Weight</b>	370g / 13oz (without batteries & HDD) 670g / 23.5oz (with batteries & HDD)	
<b>Dimensions</b> (without batteries)	115(W)x87(H)x41(D)mm	
<b>Construction</b>	Aircraft grade aluminium for durability + portability. Fanless for silent operation.	
<b>Operating Power</b>	3.0W (Monitoring Only) / 6.0W (Rec, Mon & Play)	
<b>Batteries</b> 7.2V-14.4V Battery System Compatible any source NP Series DTap and supporting accessories	All 7.4v 1. 2600mAh - Up to 10hrs 2. 5200mAh - Up to 20hrs 3. 7800mAh - Up to 30hrs 4. AC Power via adaptor plate (option) 5. DTap Dummy Battery (Cables sold separately)	
<b>Continuous Power*</b>	Primary-Secondary battery system. Change batteries without losing power. Loop batteries continuously. *Patent Pending	
<b>Touchscreen</b>	Size: 4.3" diagonal. Resolution: 800x480. Aspect Ratio: 16:9 native / 4:3 Letterbox. SMPTE Colour Specification Native Frame Rate Playback (48-60Hz)	
<b>Video Input</b> Uncompressed 10/8-bit 4:2:2 Simultaneously displayed on internal 4.3" Ninja-2 screen	HDMI x 1 HD-SDI/SD-SDI (with optional Connect SDI → HDMI converter)	HDMI 1.4
<b>Video Out</b>	Reclocked, ultra low jitter professional grade HDMI output, "HDMI 1.4"	
<b>Supported Formats (In/Out)</b>	HD 1080i60, 1080i59.94, 1080i50, 1080p30, 1080p25, 1080p24, 1080p23.98, 1080p30(60i), 1080p25(50i), 1080p24(60i), 1080p23.98(60i), 720p60, 720p59.94, 20p50, SD 480i, 576i  Most HDMI cameras output 24P, 25P and 30P as 50i or 60i, see <a href="http://www.atomos.com/support">www.atomos.com/support</a>	
<b>Realtime Hardware Encoding</b> 1920x1080 8/10-bit 4:2:2 to:	→ Apple ProRes® HQ - 220Mbps 422 - 150Mbps LT - 100Mbps	
	→ Avid DNxHD	Avid DNxHD-220X - 220Mbps (10-bit) Avid DNxHD-220 - 36 Mbps (8-bit) Avid DNxHD-145 - 36 Mbps (8-bit)
<b>Audio input</b>	HDMI 2 channel + 2 analog channels with gain controls.	
<b>Audio Output</b>	HDMI 2 channel (8 channel coming summer) Analog line and Headphone	
<b>Remote start and stop</b>	HDMI start/stop flags (Canon compatible); LANC trigger via optional LANC adaptor	
<b>Customisable Remote Controls</b> (control all Ninja functions)	System integrator custom controls available on request	
<b>Timecode</b>	Sony and Canon compatible HDMI timecode in and out	
<b>Recording Time</b>	<b>Edit Formats</b> (I-Frame Only, 422, 8/10-bit)	<b>HDD or SSD</b>
HDD & SSD's are hot swappable on the fly in the field		<b>250GB</b> <b>500GB</b> <b>1 TB</b>
<b>ProRes</b> <b>Avid DNxHD</b>	ProRes® HQ (10-bit, 220Mbps)	2.5 hrs   5hrs   10hrs
	Avid DNxHD-220x (10 bit, 220Mbps)	2.5 hrs   5hrs   10hrs
	ProRes® 422 (10 bit, 150Mbps)	4 hrs   8hrs   16hrs
	Avid DNxHD-145 (8 bit, 145Mbps)	4 hrs   8hrs   16hrs
	ProRes® LT (10 bit, 100Mbps)	5.5 hrs   11hrs   22hrs

## Master Caddy & Accessories

<b>Master Caddy Case for HDD or SSD</b> 2.5" SSD or HDD minimum 5400rpm to 10,000rpm Standard 9.5mm height	75x105x12mm	<b>For recommended drives visit: <a href="http://www.atomos.com">www.atomos.com</a></b> Available in packs of 5 for: USD 29.95 / £19.95 / €19.95 / AUD 34.95
<b>Master Caddy Dock</b>	2.5" internal drive SATA to FireWire® 800, USB2.0/3.0	
<b>Supported Applications</b>	FCPX/FCP7+ / Media Composer 5.0+ / Premiere 5.0+ EDIUS 6.0+ / Vegas Pro 10+ / Lightworks	
<b>Accessories included</b>	• Universal Battery Charger 110-240V • Docking station and Leads • 2 x Master Caddy Cases • 2 x Atomos 2600mAh batteries • Rugged Carry case	
<b>Optional extras</b>	• 5 x Master Caddy Cases • Atomos AC Adapter • Docking station and Leads • Sun hood • Cable Clamp • Replacement Foam • Connect H2S converter • Connect S2H converter	

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